



4th Special Session: data analysis



David Mitchelson – co-chairman

After working for 6 years in the aerospace industry in California, David Mitchelson pioneered development of automated techniques for 3D analysis of human movement at Loughborough University from 1970 onwards. He subsequently led the design and evolution of several generations of the Codamotion system, first in the academic environment and subsequently in Charnwood Dynamics Ltd, which he founded in the 1980s. David has continued his contributions to create the latest generation of high-resolution portable Codamotion systems for 3D measurement and analysis.



Eric Watelain – co-chairman

Member of the biomechanical group of the LAMIH, he is a young senior lecturer at Valenciennes University. Eric is a member of the Sports Sciences Faculty, he teaches in biomechanics and movement analysis, specifically in the field of Adapted Physical Activity. His research focuses on normal and pathological human locomotion: Gait, running and wheelchair propulsion.





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Objectivity and subjectivity in the analysis of 3D movement data



Pierre Loslever - invited speaker

Pierre Loslever obtained his PhD in Human and Industrial Automatics in 1988. The topic was the ergonomics of the sitting posture in the data entry task using posture, performance and subjective data. The data analysis was performed thanks to multivariate statistical methods based on 1) clustering to get postural classes and 2) factor analysis interfaced with fuzzy windowing to get relation between objective and subjective data and the influence of the factors on the measurement variables. Since 2002 he is professor in automatic control at the university of Valenciennes and his research field concerns the data analysis in Human component system studies.





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- Raphaël Dumas, Elsa Nicol & Laurence Chèze,
Influence of perturbed gait data on four 3D inverse dynamic methods
- David R. Labbe, Nicola Hagemeister, Mathieu Charbonneau & Jacques de Guise,
Evaluation of the intra- and inter-observer reproducibility of a method for studying three-dimensional knee kinematics
- Lianne Jones, Malcolm Beynon & Cathy Holt,
Knee Function Classification: An overview of the Dempster-Shafer based classifier
- Discussion

